DLP™ Display Wall Cubes:
Huge Advances in Display Technology.

Display Wall at T-Com's Network Operation Center in Stuttgart

MITSUBISHI ELECTRIC
Changes for the Better
Electronic Visual Systems

Display Cubes:

new standards in picture quality.

Anywhere up-to-date, precise visual information is needed, display cubes are the first choice. In control rooms, surveillance systems or information boards the latest Mitsubishi technology guarantees the best image quality along with easy operation and high flexibility. All Display Cubes show their strengths equally, whether used as individual units or arranged in a display wall.

Large images have

never been so bright.

Previous contrast ratio

Improved contrast ratio:
up to 1600:1

With a brightness of up to 1000 cd/m^2 (bright mode), XGA or SXGA+ resolution and a contrast of up to 1600:1, Mitsubishi Display Cubes stand out even in daylight environments. And when you don't need the full brightness power, you can switch to normal mode, to the benefit of the lamp's service life. No need to worry that so much brightness will leave its mark on the screen: even in the case of long-term static images, DLP™ technology prevents burn-in and image retention.

Burn-in effect

No burn-in effect

The new Display Cubes

make excellent team players.

No more color differences or inconsistent brightness in images shown across several display cubes. The digital Color Space Control circuit compensates for color and brightness discrepancies. And Dynamic Brightness Balancing ensures that brightness remains uniform, even over a longer period of operation.

Without Color Space Control

With Color Space Control

After a lamp change, the Smart Lamp System recognizes the brightness of the new lamp and the Display Cubes automatically match their brightness with the others. The status of each Display Cube is always in view: the front LED status display not only instantly informs you of a problem, it also indicates ways to solve it.

Intelligent design – intelligent user interface.

VS-50XL50U/VS-50PH50U

VS-67XL50U/VS-67PH50U

Space-saving technology.

Based on an optimization of the optical system, a shorter projection distance has been achieved. In combination with the Display Cubes' rear projection technology, this has greatly reduced the depth of the units.

Technology highlights without reflections.

Mitsubishi screens minimize spurious reflections. The use of a new coating gives the Display Cubes an extremely sharp, high-contrast picture with unexcelled brightness uniformity. The viewing angle has also been improved, making the picture visible even from extreme angles. And screen-to-screen gap widths of just 1 or 2 mm respectively guarantee you multiple-display projections with constant brilliance and hardly noticeable breaks.

VS-50XL50U (50", XGA resolution)

The 50-inch basic model.

Experience natural color characteristics across the full display. The 12-bit dither circuit guarantees smooth images and truly natural gradation. Perfect rendering of both bright and dark areas produces precise halftones.

Sometimes what you don't see is just as important: cabling ducts on the rear side enable easy wiring during installation and maintenance.

VS-67XL50U (67", XGA resolution)

When size does matter: the full 67 inches.

You decide how big your Display Cube should be: 50 or 67 inches. This gives you maximum flexibility when installing individual Display Cubes or a display wall.

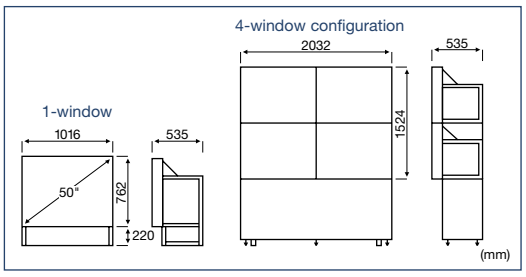
Naturally, the VS-67XL50U has the same excellent characteristics as its little brother.

Specification table VS-50XL50U and VS-67XL50U

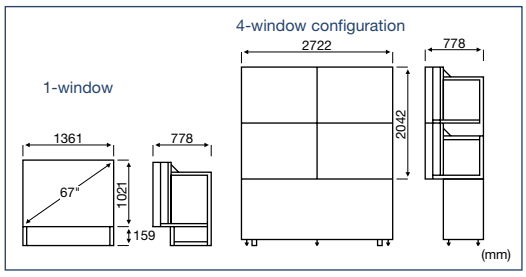
Model	VS-50XL50U/VS-67XL50U
Technology	1-Chip DLP™ (0.7" DMD 1-Chip)
Native Resolution	XGA (1024 x 768 pixels)
Screen Size	50" (1015 x 761 mm)/67" (1359 x 1019.3 mm)
Screen to Screen Gap	0.2–1 mm (typ.)/0.2–2 mm (typ.)
Brightness	Bright mode: 1000 cd/m² (typ.)/500 cd/m² (typ.) Normal mode: 800 cd/m² (typ.)/400 cd/m² (typ.)
Contrast Ratio	1300:1
Colors	16.77 million
Lamp Life	Bright mode: up to 6000 hours[1], normal mode: up to 10,000 hours[1]
Input Scan Frequency	Horizontal: 31.5–78 kHz, vertical: 49–85 Hz
Analog RGB Signal Input	RGB signal level: 0.7 Vp-p, positive/75 Ω, synchronous: TTL level (positive/negative), Sync on green
Digital RGB Signal Input	TMDS (DVI-D connector)
Control Signal Input/Output	RS-232C: 1 x D-Sub 9-pin, Mitsubishi control link: 2 x D-Sub 9-pin (input/output), wire remote: F 3.5 jack, IR receiver
Power Consumption	195 W
Power Supply	AC 100–240 V ± 10 %, 50/60 Hz ± 1 Hz
Operation Temperature	10–35 °C
Operation Humidity	20–80 % RH
Weight	60 kg/90 kg
Optional Accessories	Black Bead Screen

[1]The average lamp life is an average value advised by a lamp manufacturer. The lamp life is calculated with statistical methods. The definition of the average lamp life is that 50 % of lamps reach the average lamp life with a brightness level of 50 % or more.

VS-50XL50U



VS-67XL50U

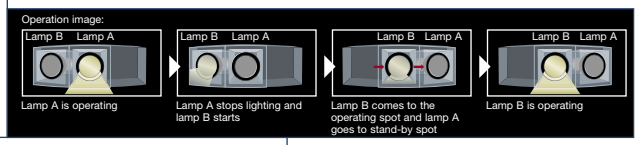


VS-50XLW50U / VS-67XLW50U (50" / 67", XGA resolution)

The lamp changer, available in two sizes.

If you need to avoid long image downtime under any circumstances, Speed Lamp Swap gives you the technology to play it safe. If the original lamp expires, a spare lamp is switched on automatically, taking the place of the original lamp. The image reappears in less than 10 seconds – of course, in the same excellent Display Cube image quality.

Now lamp changers are available in two screen sizes: 50 and 67 inch for large-scale reliability.

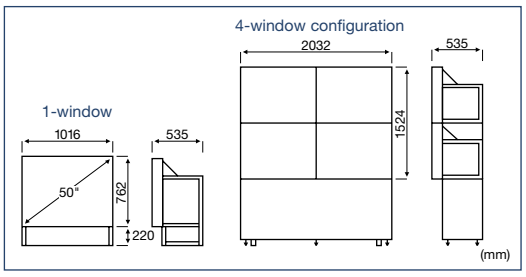

Operation image:
Lamp B Lamp A
Lamp A is operating
Lamp B Lamp A
Lamp A stops lighting and lamp B starts
Lamp B Lamp A
Lamp B comes to the operating spot and lamp A goes to stand-by spot
Lamp B Lamp A
Lamp B is operating

Specification table VS-50XLW50U and VS-67XLW50U

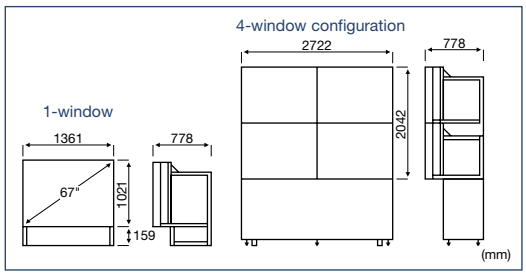
Model	VS-50XLW50U / VS-67XLW50U
Technology	1-Chip DLP™ (0.7" DMD 1-Chip)
Native Resolution	XGA (1024 x 768 pixels)
Screen Size	50" (1015 x 761 mm) / 67" (1359 x 1019.3 mm)
Screen to Screen Gap	0.2–1 mm (typ.) / 0.2–2 mm (typ.)
Brightness	Bright mode: 1000 cd/m² (typ.) / 500 cd/m² (typ.) Normal mode: 800 cd/m² (typ.) / 400 cd/m² (typ.)
Contrast Ratio	1300:1
Colors	16.77 million
Lamp Life	Bright mode: up to 6000 hours[1], normal mode: up to 10,000 hours[1]
Input Scan Frequency	Horizontal: 31.5–78 kHz, vertical: 49–85 Hz
Analog RGB Signal Input	RGB signal level: 0.7 Vp-p, positive/75 Ω, synchronous: TTL level (positive/negative), Sync on green
Digital RGB Signal Input	TMDS (DVI-D connector)
Control Signal Input/Output	RS-232C: 1 x D-Sub 9-pin, Mitsubishi control link: 2 x D-Sub 9-pin (input/output), wire remote: F 3.5 jack, IR receiver
Power Consumption	195 W
Power Supply	AC 100–240 V ± 10 %, 50/60 Hz ± 1 Hz
Operation Temperature	10–35 °C
Operation Humidity	20–80 % RH / 20–70 % RH
Weight	62 kg / 94 kg
Optional Accessories	Black Bead Screen

[1]The average lamp life is an average value advised by a lamp manufacturer. The lamp life is calculated with statistical methods. The definition of the average lamp life is that 50 % of lamps reach the average lamp life with a brightness level of 50 % or more.

VS-50XLW50U

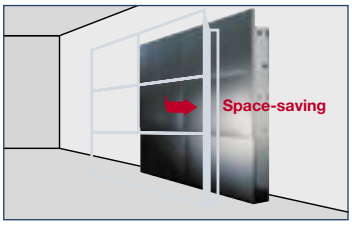


VS-67XLW50U



VS-50XLF50U (50", XGA resolution)

50-inch display with front maintenance.



Nobody likes to have their back to the wall. And with the VS-50XLF50U you don't have to. All controls and connections are positioned on the front, making it simplicity itself to access this Display Cube.

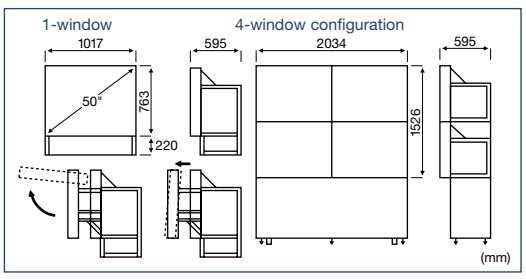
Front maintenance isn't just convenient, it also saves space by allowing you to mount the Display Cube directly on the wall – whether a single display or an entire wall. A special ventilation system prevents overheating.

Specification table VS-50XLF50U

Model	VS-50XLF50U
Technology	1-Chip DLP™ (0.7" DMD 1-Chip)
Native Resolution	XGA (1024 x 768 pixels)
Screen Size	50" (1015 x 761 mm)
Screen to Screen Gap	1–2 mm (typ.)
Brightness	Bright mode: 1000 cd/m^2 (typ.) Normal mode: 800 cd/m^2 (typ.)
Contrast Ratio	1300:1
Colors	16.77 million
Lamp Life	Bright mode: up to 6000 hours[1], normal mode: up to 10,000 hours[1]
Input Scan Frequency	Horizontal: 31.5–78 kHz, vertical: 49–85 Hz
Analog RGB Signal Input	RGB signal level: 0.7 Vp-p, positive/75 Ω, synchronous: TTL level (positive/negative), Sync on green
Digital RGB Signal Input	TMDS (DVI-D connector)
Control Signal Input/Output	RS-232C: 1 x D-Sub 9-pin, Mitsubishi control link: 2 x D-Sub 9-pin (input/output), wire remote: F 3.5 jack, IR receiver
Power Consumption	195 W
Power Supply	AC 100–240 V ± 10 %, 50/60 Hz ± 1 Hz
Operation Temperature	10 – 35 °C
Operation Humidity	20 – 70 % RH
Weight	69 kg
Optional Accessories	Black Bead Screen

[1]The average lamp life is an average value advised by a lamp manufacturer. The lamp life is calculated with statistical methods. The definition of the average lamp life is that 50 % of lamps reach the average lamp life with a brightness level of 50 % or more.

VS-50XLF50U



VS-50PH50U/VS-67PH50U (50"/67", SXGA+ resolution)

One of the highest-resolution Display Cubes you've ever seen.

PH-series Display Cubes have a whole range of technical highlights. The native SXGA+ resolution (1400 x 1050 pixels) and high 1600:1 contrast give an incredibly sharp image, which shows off to its best advantage with an intense brightness of up to 1000 cd/m^2.

Smart Lamp Control automatically adjusts color and brightness, making PH Display Cubes very low-maintenance. Lamp change is automatic and takes only about 10 seconds.

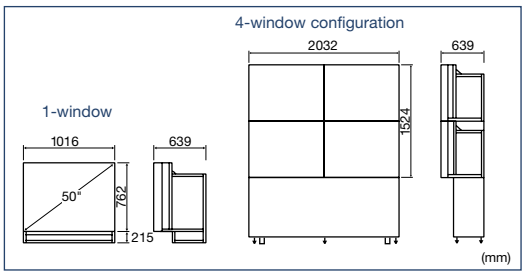
Whether individual Display Cube or entire wall: the image quality remains consistently high. Innovative Light Tunnel Design protects the optical unit from dust so the large, brilliant picture of the 50 or 67-inch model will stay bright for a long time.

Specification table VS-50PH50U and VS-67PH50U

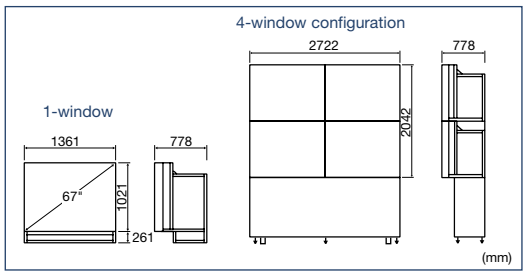
Model	VS-50PH50U/VS-67PH50U
Technology	1-Chip DLP™ (0.95" DMD 1-Chip)
Native Resolution	SXGA+ (1400 x 1050 pixels)
Screen Size	50" (1015 x 761 mm)/67" (1359 x 1019.3 mm)
Screen to Screen Gap	0.2–1 mm (typ.)/0.2–2 mm (typ.)
Brightness	Bright mode: 1000 cd/m² (typ.)/500 cd/m² (typ.) Normal mode: 800 cd/m² (typ.)/400 cd/m² (typ.)
Contrast Ratio	1600:1
Colors	16.77 million
Lamp Life	Bright mode: up to 6000 hours[1], normal mode: up to 10,000 hours[1]
Input Scan Frequency	Horizontal: 31.5–78 kHz, vertical: 49–85 Hz
Analog RGB Signal Input	RGB signal level: 0.7 Vp-p, positive/75 Ω, synchronous: TTL level (positive/negative), Sync on green
Digital RGB Signal Input	TMDS (DVI-D connector)
Control Signal Input/Output	RS-232C: 1 x D-Sub 9-pin, Mitsubishi control link: 2 x D-Sub 9-pin (input/output), wire remote: F 3.5 jack, IR receiver
Power Consumption	195 W
Power Supply	AC 100–240 V ± 10 %, 50/60 Hz ± 1 Hz
Operation Temperature	10–35 °C
Operation Humidity	20–80 % RH
Weight	64 kg/91 kg
Optional Accessories	Black Bead Screen

[1]The average lamp life is an average value advised by a lamp manufacturer. The lamp life is calculated with statistical methods. The definition of the average lamp life is that 50 % of lamps reach the average lamp life with a brightness level of 50 % or more.

VS-50PH50U



VS-67PH50U



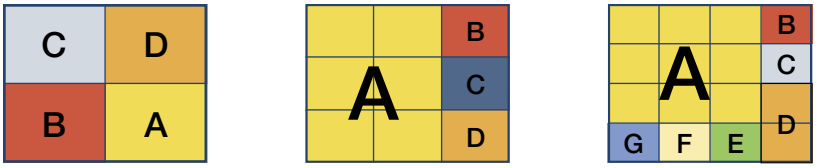
VC-B50KA

Control center for dazzling performance.

Display Cubes are best connected via an optional scaling board or optional video input board. They enable you to configure the projection of large images across multiple cubes. Digital connections also allow for a variety of wall configurations using daisy chain links.

Input	Analog RGB: 1 x HD D-Sub 15-pin Digital RGB: 1 x DVI-D
RGB Input Scan Frequency	Horizontal: 31.5–92 kHz Vertical: 49–85 Hz
Pixel Clock Rate Analog/Digital	25–162 MHz
Analog RGB Signal Input	RGB signal level: 0.7 Vp-p, positive/75 Ω, synchronous: TTL level (positive/negative), Sync on green
Digital RGB Signal Input Digital RGB Signal Output	TMDS (DVI-D connector) DVI-D connector (daisy chain use only)

Configuration examples



Mitsubishi Electric Europe B. V. • German Office • Electronic Visual Systems • Gothaer Straße 8 • D-40880 Ratingen
Tel.: +49 (0) 21 02/4 86 92 50 • Fax: +49 (0) 21 02/4 86 73 20 • www.mitsubishi-evs.de

(The right to make technical changes is reserved; no liability is accepted for printing or other errors)

MITSUBISHI ELECTRIC
Changes for the Better
Electronic Visual Systems